

***** ASPECT Mission Order *****

Page 1

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** Basic Survey Information **

Mission/Deployment Name: ITC Fire

Mission Order Number: 001

Flight Window: 19 April 2019 0845(Local Take Off)
0900(Local Over Target)

Overall Mission Objectives: - Photographic
- Chemical

Specific Mission Objectives:

Objective 1 -- Collect chemical and photo data over the tank farm
Objective 2 -- Collect chemical and photo data downwind of the tank farm
Objective 3 -- Collect chemical and photo data over the confluence area
(ship channel)

Communications will be accomplished using Pidgin
Contact person is: Tim (816-718-4281)

Special Instructions:

Make certain that obliques are saved using the desktop icon

Debrief Time: End of Flight

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** Target Description **

Target 1 -- Tank farm

Target 2 -- Downwind areas

Target 3 -- Confluence area (southern shore of the ship channel)

** Mission Design **

The Flight Design for ITC is as follows.

Line 1 ==== Over the tank farm

Line 2 ==== 50 to 100 meters downwind of the tank farm

Line 3 ==== 500 meters downwind of the tank farm

Line 4 ==== In line with the wind, up or down over the tank farm

Line 5 ==== Over the confluence area (southern shore of the ship channel)

** Navigational/GPS Data **

Latitude data was not given

Longitude data was not given

** INS Data and Time **

Software: Use Vector_Nav_Collect for GPS/INS data

Make certain that the time source is active and locked prior to
system startup

Crew Reporting Elements:

1. Temperature at flight level?
2. Wind direction and speed at flight level?
3. Nature of the incident and/or plume?
4. Plume/smoke color?
5. Is the plume rising or staying close to the ground?
6. What direction is the plume/smoke moving?
7. What activities are observed on the ground?
8. Report who is at each crew station

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** Photo Parameters **

Camera System	Operate
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Nikon	
MSIC	X
Oblique	X
Visible Video	
IR Video	
Visible and IR Video	X

Altitude (AGL) = 2800 Ft
Air Speed = 102 Kts
Frame Interval = 6 Seconds

If the oblique camera is used:

1. Set the Date
2. Set the Time
3. Shoot frames from the copilot position

Software or actions needed for the MSIC:

1. Start Event Timers
2. MSIC_Controller
3. Collect a line of photos to test controller settings

Software needed for the Video:

VCR_drive_Controller

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** Chemical Parameters **

Chemical Collection Altitude =2800 Ft AGL
Collect Data with the FTIR Sensor

FTIR Resolution = 16 cm-1

Mission Specific FTIR Notes

Collect Data with the IRLS Sensor

TA Blackbody = Auto Mode
TB Blackbody = Auto Mode

Mission Specific IRLS Notes

Check and Sync the IRLS computer time
Confirm that the unit has cooled down (T = 1.06V)
If TA/TB are in Auto Mode obtain air temperature from the reachback team

Software: Use RS800 BB Log for auto Blackbody operation

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